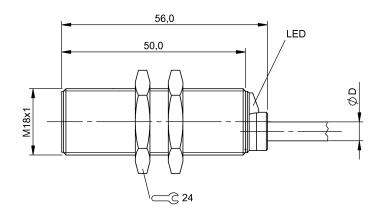
BES M18MI-PSC80B-BV05 Order Code: BES008H









Global





Basic features

Approval/Conformity

CE
cULus
EAC
WEEE

Basic standard

IEC 60947-5-2

Display/Operation

Trademark

Function indicator yes
Power indicator no

Electrical connection

Cable diameter D 4.60 mm Cable length L 5 m Conductor cross-section 0.34 mm² Cable, 5.00 m, PVC Connection type **Number of conductors** 3 Polarity reversal protected yes Protection against device mix-ups yes Short-circuit protection yes

Electrical data

Load capacitance max. at Ue $1 \, \mu F$ Min. operating current Im 0 mA No-load current lo max., damped 15 mA No-load current lo max., undamped 8 mA Operating voltage Ub 12...30 VDC Output resistance Ra 33.0 kOhm + D **Protection class** Rated insulation voltage Ui 250 V AC Rated operating current le 200 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 30 ms Residual current Ir max. 20 μΑ Ripple max. (% of Ue) 15 % Switching frequency 150 Hz **Utilization category** DC -13

Environmental conditions

 $\begin{array}{lll} \mbox{Ambient temperature} & -25...70 \ ^{\circ}\mbox{C} \\ \mbox{Contamination scale} & 3 \end{array}$

EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min

2.5 V

Protection degree IP68

Functional safety

Voltage drop static max.

MTTF (40 °C) 330 a

Inductive Sensors

BES M18MI-PSC80B-BV05 Order Code: BES008H



Material

Housing material	Brass
Material jacket	PVC
Material sensing surface	PA 12
Surface protection	nickel plated

Mechanical data		
Dimension	Ø 18 x 56 mm	
Installation	for flush mounting	
Size	M18x1	
Tightening torque	25 Nm	

Output/Interface

Switching output	PNP normally open (NO)
Range/Distance	
Assured operating distance Sa	6.4 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	8 mm
Real switching distance sr	8 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	••
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

Flush: See installation instructions for inductive sensors with extended range 939221.

The sensor is functional again after the overload has been eliminated.

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Wiring Diagrams

